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**CLASSIFICATION AND CORRELATION
OF
THE SOILS OF**

**KNOX COUNTY
INDIANA**

JUNE 1979



**U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MIDWEST TECHNICAL SERVICE CENTER
LINCOLN, NEBRASKA**

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
Midwest Technical Service Center
Lincoln, Nebraska 68508

Classification and Correlation
of the Soils of
Knox County, Indiana

The final correlation conference for Knox County, Indiana, was held the week of February 5-9, 1979. Those participating in the correlation were Leo Kelly, Party Leader, Soil Conservation Service; DeWayne Williams, Soil Correlator, Soil Conservation Service; and Steve R. Base, Soil Correlator, Soil Conservation Service. The data reviewed consisted of the initial draft of the manuscript, field notes, laboratory data, field sheets, correlation samples, engineering test data, field correlation, and the SCS-SOILS-6 forms. Steve R. Base also participated in the comprehensive field review which was held October 17-21, 1977.

Map symbols consist of a combination of letters or of letters and numbers. The first capital letter is the intital one of the soil name. The lowercase letter that follows separates map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 indicates that the soil is moderately eroded and 3 that is severely eroded.

Knox County, Indiana

2 *Checked
with Towner*

<u>Field Symbol</u>	<u>Field Mapping Unit Name</u>	<u>Pub. Symbol</u>	<u>Approved Mapping Unit Name</u>
AdB	Ade loamy fine sand, 2-6% slopes	) AdB ✓	Ade loamy fine sand, 2 to 6 percent slopes ✓
AlA	Alford silt loam, 0-2% slopes	) AlA ✓	Alford silt loam, 0 to ✓ 2 percent slopes
AlB2	Alford silt loam, 2-6% slopes, eroded	) AlB2 ✓	Alford silt loam, 2 to ✓ 6 percent slopes, eroded
AlC2 AlC3	Alford silt loam, 6-12% slopes, eroded	) AlC2 ✓	Alford silt loam, 6 to ✓ 12 percent slopes, eroded
AlD3 AlD2	Alford silt loam, 12-18% slopes, severely eroded	) AlD3 ✓	Alford silt loam, 12 to ✓ 18 percent slopes, severely eroded
PrB PrB2	Princeton fine sandy loam, 2-6% slopes	) AnB	Alvin fine sandy loam, ✓ 2 to 6 percent slopes
PrC PrC2	Princeton fine sandy loam, 6-12% slopes	) AnC ✓	Alvin fine sandy loam, 6 to 12 percent slopes ✓
PrD PrD2	Princeton fine sandy loam, 12-18% slopes	) AnD ✓	Alvin fine sandy loam, 12 to 18 percent slopes
Ar	Armiesburg silty clay loam	) Ar ✓	Armiesburg silty clay loam, rarely flooded ✓
Ay	Ayrshire fine sandy loam	) Ay ✓	Ayrshire fine sandy loam ✓
Bd	Birds silt loam	Bd ✓	Birds silt loam ✓
BlB BlC	Bloomfield loamy fine sand, 2-10% slopes	) BlB ✓	Bloomfield loamy fine sand, 2 to 10 percent ✓ slopes
BlD	Bloomfield loamy fine sand, 12-18% slopes	) BlD ✓	Bloomfield loamy fine sand, 12 to 18 percent ✓ slopes
ChC	Chelsea loamy fine sand, 4-10% slopes	) ChC ✓	Chelsea loamy fine sand, 4 to 10 percent slopes ✓
NgF NeF	Negley loam, 25-50% slopes	) ClF ✓	Chetwynd loam, 25 to 50 percent slopes ✓

<u>Field Symbol</u>	<u>Field Mapping Unit Name</u>	<u>Pub. Symbol</u>	<u>Approved Mapping Unit Name</u>
OsA	Oshtemo sandy loam, 0-3% slopes	) CoA ✓)	Conotton sandy loam, 0 to 3 percent slopes ✓
Du	Dumps, mine	Du ✓	Dumps, mine ✓
Ak	Adrian Variant muck	Ed ✓	Edwards Variant muck, drained ✓
Eka MaA	Elkinsville silt loam, 0-2% slopes	) EkA ✓)	Elkinsville silt loam, 0 to 2 percent slopes ✓
ElA ElB2	Elston sandy loam, 0-3% slopes	) ElA ✓)	Elston sandy loam, 0 to 3 percent slopes ✓
OrB	Strip mine	FaB ✓	Fairpoint shaly silt loam, 0 to 8 percent slopes ✓
St	Cardonia shaly silt loam, 35-90% slopes	) FbG ✓)	Fairpoint very shaly silt loam, 35 to 90 percent ✓ slopes
Ha	Haymond silt loam	Ha ✓	Haymond silt loam, frequently flooded ✓
Hb	Haymond silt loam	Hb ✓	Haymond silt loam, rarely flooded ✓
Hc	Haymond Variant loamy sand	) Hc ✓)	Haymond Variant loamy sand, frequently flooded ✓
HeA	Henshaw silt loam, 0-2% slopes	) HeA ✓)	Henshaw silt loam, 0 to 2 percent slopes ✓
HkF HcF WeF WeF2	Hickory loam, 25-50% slopes	) HkF ✓)))	Hickory loam, 25 to 50 percent slopes ✓
HoA MuA	Hosmer silt loam, 0-2% slopes	) HoA ✓)	Hosmer silt loam, 0 to 2 percent slopes ✓
HoB2 HoB3 MuB2	Hosmer silt loam, 2-6% slopes, eroded	) HoB2 ✓))	Hosmer silt loam, 2 to 6 percent slopes, eroded ✓

<u>Field Symbol</u>	<u>Field Mapping Unit Name</u>		<u>Pub. Symbol</u>	<u>Approved Mapping Unit Name</u>
HoC3 HoC2	Hosmer silt loam, 6-12% slopes, severely eroded	) ) )	HoC3 ✓	Hosmer silt loam, 6 to 12 percent slopes, ✓ severely eroded
HoD3 HoD2	Hosmer silt loam, 12-18% slopes, severely eroded	) ) )	HoD3 ✓	Hosmer silt loam, 12 to 18 percent slopes, severely eroded ✓
IoA	Iona silt loam, 0-2% slopes	) )	IoA ✓	Iona silt loam, 0 to 2 ✓ percent slopes
IvA	Iva silt loam, 0-2% slopes	) )	IvA ✓	Iva silt loam, 0 to 2 ✓ percent slopes
Kn	Kings silty clay	)	Kn ✓	Kings silty clay ✓
La	Landes loamy sand	)	La ✓	Landes loamy sand ✓
Rs	Ross loam	)	Lo ✓	Lomax loam ✓
Ly Rn	Lyles fine sandy loam	) )	Ly ✓	Lyles fine sandy loam ✓
MbB2	Markland silt loam, 2-6% slopes, eroded	) )	MbB2 ✓	Markland silt loam, 2 to 6 percent slopes, ✓ eroded
McA	McGary silt loam, 0-2% slopes	) )	McA ✓	McGary silt loam, 0 ✓ to 2 percent slopes
No	Nolin silty clay loam	) )	No ✓	Nolin silty clay loam, rarely flooded ✓
Pb Ev Pa Mt	Patton silty clay loam	) ) ) )	Pb ✓	Patton silt loam ✓
Pg	Peoga silt loam	)	Pg ✓	Peoga Variant silt loam ✓
Pt	Petrolia silty clay loam	) )	Po ✓	Petrolia silty clay loam, frequently flooded ✓

<u>Field Symbol</u>	<u>Field Mapping Unit Name</u>	<u>Pub. Symbol</u>	<u>Approved Mapping Unit Name</u>
Ps	Proctor silt loam	PsA ✓	Proctor silt loam, 0 to 2 percent slopes ✓
Ra	Ragsdale silt loam	Ra ✓	Ragsdale silt loam ✓
ReA	Reesville silt loam, 0-2% slopes	) ReA ✓)	Reesville silt loam, 0 to 2 percent slopes ✓
Ws	Westland loam	Sa ✓	Selma loam ✓
Wt	Westland clay loam, drained	) Sc ✓)	Selma clay loam ✓
SbA	Shipshe sandy loam, 0-2% slopes	) SdA ✓)	Stockland sandy loam, 0 to 2 percent slopes ✓
SyB2 IoB2 IoB3	Sylvan silt loam, 2-6% slopes, eroded	) SyB2 ✓))	Sylvan silt loam, 2 to 6 percent slopes, eroded ✓
SyC3 SyC2	Sylvan silt loam, 6-12% slopes, severely eroded	) SyC3 ✓))	Sylvan silt loam, 6 to 12 percent slopes, severely eroded ✓
SyD3 SyD2	Sylvan silt loam, 12-18% slopes, severely eroded	) SyD3 ✓))	Sylvan silt loam, 12 to 18 percent slopes, severely eroded ✓
SyF SyF2	Sylvan silt loam, 25-40% slopes	) SyF ✓)	Sylvan silt loam, 25 to 40 percent slopes ✓
G.P.	Gravel pits	UdB ✓	Udorthents, gently sloping ✓
Vn	Vincennes loam	Vn ✓	Vincennes loam ✓
Vo	Vincennes Variant clay loam	) Vo ✓)	Vincennes clay loam, gravelly substratum ✓
Wa	Wakeland silt loam	Wa ✓	Wakeland silt loam, frequently flooded ✓
Ca	Carlisle muck	Wb ✓	Wallkill silt loam ✓

<u>Field Symbol</u>	<u>Field Mapping Unit Name</u>		<u>Pub. Symbol</u>	<u>Approved Mapping Unit Name</u>
Wc	Wallkill Variant silt loam	{	) Wc ✓	Wallkill silt loam, ✓ clayey substratum
Zp	Zipp silty clay		) Zp ✓	Zipp silty clay ✓
Zt	Zipp silty clay, gravelly substratum		) Zt ✓)	Zipp silty clay, ✓ frequently flooded

Series established by this correlation:

None

Series dropped or made inactive:

None

Certification Statement:

The state soil scientist has certified that mapping is complete and that both the detailed maps and the general soil map are joined. The state soil scientist further certifies that the interpretations are all joined and that the soil survey area type locations are accurately located.

Verification of Cooperator's Names:

The citations, as they will appear on the cover and on the inside of the front cover of the manuscript, are as follows:

United States Department of Agriculture
Soil Conservation Service
in cooperation with
Purdue University Agricultural Experiment Station
and
Indiana Department of Natural Resources
Soil and Water Conservation Committee

Disposition of Field Sheets:

The original field sheets for Knox County will be kept at the Indiana State Office where they will later be compiled and finished.

Prior Soil Survey Publications:

The prior soil survey publication for Knox County was in 1943. This survey contains a less detailed map. The current survey updates this prior survey and provides additional interpretative information.

Instructions for Map Compilation and Map Finishing:

The symbols on the following conventional and special symbols legend are those that will be used in map finishing with exception of the symbol for dumps and other non-soil areas and the symbols for severely eroded spots. Both of these symbols are dropped.

The symbol for sanitary landfill is added to the legend as a result of this correlation.

Soil Survey Area: Knox County
State: Indiana

Date: 2/79

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CULTURAL FEATURES		CULTURAL FEATURES (cont.)		SPECIAL SYMBOLS FOR SOIL SURVEY	
BOUNDARIES		MISCELLANEOUS CULTURAL FEATURES		SOIL DELINEATIONS AND SOIL SYMBOLS	
National, state, or province	---	Farmstead, house (built in urban areas)	*	ESCARPMENTS	CaA Fo82
County or parish	- - - -	Church	+	GULLY	~~~~~
Minor civil division	----	School	.	MISCELLANEOUS	-
Land grant	=====	Indian mound (label)	o		
Field sheet matching & real-time	=====				
AD HOC BOUNDARY (label)	[] []				
Small airport, airfield, park, oilfield, cemetery, or flood pool	[] []				
STATE COORDINATE TICK 1:50,000 FEET	| | | |	WATER FEATURES			
LAND DIVISION CORNERS (sections and land grants)	+ + + +	DRAINAGE			
ROADS		Perennial, double line	====	Oil-pipe and other similar non-soil areas	==
Divided (should show if scale permits)	=====	Perennial, single line	=====	Rock outcrop (includes sandstone and shale)	V
County, lane or ranch	-----	Intermittent	.....	Severely eroded spot	=
ROAD EMBLEMS & DESIGNATIONS		Drainage end	=====		
Federal	287	Canals or ditches	=====		
State	52	Drainage and/or irrigation	=====		
RAILROAD	=====	LAKES, PONDS AND RESERVOIRS			
LEVIES		Perennial	water	RECOMMENDED AD HOC SOIL SYMBOLS	
Without road	=====			Sanitary landfill (each symbol represents 5 acres or less)	H
DAMS		MISCELLANEOUS WATER FEATURES			
Medium or small	W				
PITS					
Gravel pit	X				

Approved: June 18, 1979

Maurice Stout Jr.

Maurice Stout, Jr.
Head, Soils Staff
Midwest TSC

CONVERSION LEGEND RELATING
FIELD SYMBOLS TO THE PUBLICATION SYMBOLS

Field Symbol	Publication Symbol	Field Symbol	Publication Symbol	Field Symbol	Publication Symbol
AdB	AdB	HeA	HeA	PrC2	AnC
AdC	AdB	HkF	HkF	PrD	AnD
Ak	Ed	HoA	HoA	PrD2	AnD
AlA	AlA	HoB2	HoB2	Ps	PsA
AlB2	AlB2	HoB3	HoB2	PsA	PsA
AlC2	AlC2	HoC2	HoC3	Pt	Po
AlC3	AlC2	HoC3	HoC3	Ra	Ra
AlD2	AlD3	HoD2	HoD3	ReA	ReA
AlD3	AlD3	HoD3	HoD3	Rn	Ly
AnB	AnB	IoA	IoA	Rs	Lo
AnC	AnC	IoB2	SyB2	Sa	Sa
AnD	AnD	IoB3	SyB2	SbA	SdA
Ar	Ar	IvA	IvA	Sc	Sc
Ay	Ay	Kn	Kn	Sk	Ay
Bd	Bd	La	La	St	FbG
B1B	B1B	Lo	Lo	SyB2	SyB2
B1C	B1B	Ly	Ly	SyC2	SyC3
B1D	B1D	MaA	EkA	SyC3	SyC3
Ca	Wb	MbB2	MbB2	SyD2	SyD3
ChC	ChC	McA	McA	SyD3	SyD3
ClF	ClF	Mt	Pb	SyF	SyF
CoA	CoA	MuA	HoA	SyF2	SyF
Du	Du	MuB2	HoB2	UdB	UdB
Ed	Ed	NeF	ClF	Vn	Vn
EkA	EkA	NgF	ClF	Vo	Vo
E1A	E1A	No	No	Wa	Wa
E1B2	E1A	OrB	FaB	Wb	Wb
Ev	Pb	OsA	CoA	Wc	Wc
FaB	FaB	Pa	Pb	WeF	HkF
FbG	FbG	Pb	Pb	WeF2	HkF
G. P.	UdB	Pg	Pg	Ws	Sa
Ha	Ha	Po	Po	Wt	Sc
Hb	Hb	PrB	AnB	Zp	Zp
Hc	Hc	PrB2	AnB	Zt	Zt
HcF	HkF	PrC	AnC		

CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

Laboratory Data - Purdue University*

<u>Sampled As</u>	<u>Sample No.</u>	<u>Publication Map Symbol</u>	<u>Approved Classification</u>
Alford	S77IN83-11	AlB2	Alford
Armiesburg	S76IN83-19	Ar	Armiesburg
Armiesburg	S75IN83-3	Ar	Armiesburg
Ayrshire	S76IN83-3	Ay	Ayrshire taxadjunct
Sleeth	S77IN83-18	Ay	Ayrshire taxadjunct
Birds	S77IN83-12	Bd	Birds
Birds	S75IN83-12	Bd	Birds taxadjunct
Bloomfield	S77IN83-10	BlB	Bloomfield taxadjunct
Bloomfield	S76IN83-8	BlB	Bloomfield taxadjunct
Negley	S76IN83-17	ClF	Chetwynd
Oshtemo	S75IN83-2	CoA	Conotton taxadjunct
Elkinsville	S77IN83-4	EkA	Elkinsville taxadjunct
Elston	S76IN83-18	ElA	Elston taxadjunct
Haymond	S77IN83-7	Ha	Haymond
Genesee	S75IN83-6	Ha	Haymond
Henshaw	S77IN83-3	HeA	Henshaw
Wellston	S77IN83-17	HkF	Hickory
Hosmer	S75IN83-1	HoA	Hosmer
Iva	S77IN83-1	IvA	Iva
Kings	S76IN83-13	Kn	Kings
Ross	S76IN83-22	Lo	Lomax taxadjunct
Lyles	S75IN83-11	Ly	Lyles
Lyles	S75IN83-10	Ly	Lyles
Lyles	S75IN83-4	Ly	Lyles
Henshaw	S76IN83-5	McA	McGary
Patton	S76IN83-6	Pb	Milford
Nolin	S75IN83-5	No	Nolin
Montgomery	S77IN83-2	Pb	Patton
Patton	S77IN83-5	Pb	Patton
Peoga	S77IN83-16	Pg	Peoga Variant
Petrolia	S77IN83-6	Po	Petrolia
Proctor	S77IN83-19	PsA	Proctor taxadjunct
Ragsdale	S77IN83-13	Ra	Ragsdale
Reesville	S76IN83-11	ReA	Reesville
Westland	S75IN83-7	Sc	Selma taxadjunct
Westland	S75IN83-8	Sa	Selma taxadjunct
Westland	S76IN83-20	Sc	Selma
Shipshe	S76IN83-2	SdA	Stockland taxadjunct

*SCS-SOILS-8 forms have been prepared.

<u>Sampled As</u>	<u>Sample No.</u>	<u>Publication Map Symbol</u>	<u>Approved Classification</u>
Sylvan	S76IN83-10	SyB2	Sylvan
Sylvan	S77IN83-14	SyB2	Sylvan
Vincennes	S75IN83-9	Vo	Vincennes
Zipp	S76IN83-1	Vo	Vincennes taxadjunct
Wakeland	S76IN83-14	Wa	Wakeland
Westland	S75IN83-13	Sa	Westland taxadjunct
Zipp	S76IN83-12	Zp	Zipp
Zipp	S75IN83-14	Zp	Zipp

Engineering Test Data

<u>Sampled As</u>	<u>Sample No.</u>	<u>Publication Map Symbol</u>	<u>Approved Classification</u>
Armiesburg	S76IN83-19	Ar	Armiesburg
Haymond	S77IN83-7	Ha	Haymond
Hosmer	S76IN83-4	HoA	Hosmer
Kings	S76IN83-13	Kn	Kings
Westland	S76IN83-20	Sc	Selma
Shipshe	S76IN83-2	SdA	Stockland

Notes to Accompany
Classification and Correlation
of the Soils of
Knox County, Indiana

by
Steve R. Base

ADE SERIES

The soil in Knox County is a taxadjunct to the series because it has a loamy fine sand B2t horizon.

ALFORD SERIES

The type location for the Alford series is in Knox County. Indiana is proposing to change the classification from a Typic Hapludalf to an Ultic Hapludalf. Data from several states indicate that some pedons have less than 60 percent base saturation at the critical depth and others have a base saturation of more than 60 percent. After reviewing the data on hand, it appears two different procedures were used to obtain percent base saturation. In order to determine the proper classification, a study is being initiated to (1) review all existing data; (2) make an interlaboratory comparison of results of the base saturation (sum of cations) from a number of pedons where base saturation has been determined; and (3) select six representative sites each from Indiana, Illinois, and Ohio and determine the base saturation at the critical depth through the NSSL.

BLOOMFIELD SERIES

This soil is a taxadjunct to the series because it is too sandy.

CONOTTON SERIES

This soil is a taxadjunct to the Conotton series. It has formed in outwash from calcareous till and is generally less acid throughout the profile. It also contains less coarse fragments in the Ap horizon and is thought to have mixed mineralogy.

EDWARDS VARIANT

This soil is variant to the Edwards series because it has sandy material in the lower part of the profile. It is a marly, euic, mesic Limnic Medisaprists.

ELKINSVILLE SERIES

This soil is a taxadjunct to the series because it has a low base saturation. It is a fine-silty, mixed, mesic Typic Hapludult.

ELSTON SERIES

This soil is a taxadjunct to the series because it lacks an argillic horizon and contains more coarse sand in the B3 horizon than is allowed within the series.

HAYMOND VARIANT

This soil is a variant to the Haymond series because it has a sandy surface.

LANDES SERIES

The pedon from Knox County as well as the type location for the series appears to be sandy rather than coarse-loamy. Illinois proposes to change the classification to sandy in the near future.

LOMAX SERIES

This soil is a ~~taxadjunct~~ to the series because it has a thinner and darker B horizon, less than 35 percent fine sand and coarser sand in the control section, and has moderate permeability.

PEOGA VARIANT

This soil is a variant of the Peoga series because it contains more clay than is allowed within the range of the series.

PETROLIA SERIES

Indiana considers this soil has a cambic horizon; however, the lab data (S77IN83-6) indicates an irregular VFS/TOTAL SAND RATIO with increasing depth and an organic carbon content of 0.59 percent at 50 inches.

PROCTOR SERIES

This soil is a ~~taxadjunct~~ to the Proctor series because it lacks an argillic horizon. It does not have the 1.2 clay increase between the A and B horizons.

VINCENNES SERIES

The representative pedon for Knox County is also the type location for the series. The lab data at this site indicates the soil is nonacid. Indiana intends to propose this change in classification in the near future.

CLASSIFICATION OF SOILS

<u>Soil Series</u>	<u>Family or Higher Taxonomic Class</u>
Ade*	Psammentic Argiudolls; coarse-loamy, mixed, mesic
Alford	Typic HapludalFs; fine-silty, mixed, mesic
Alvin	Typic HapludalFs; coarse-loamy, mixed, mesic
Armiesburg	Fluventic Hapludolls; fine-silty, mixed, mesic
Ayrshire	Aeric OchraqualFs; fine-loamy, mixed, mesic
Birds	Typic Fluvaquents; fine-silty, mixed, nonacid, mesic
Bloomfield*	Psammentic HapludalFs; coarse-loamy, mixed, mesic
Chelsea	Alfic Udipsamments; mixed, mesic
Chetwynd	Typic Hapludults; fine-loamy, mixed, mesic
Conotton*	Typic HapludalFs; loamy-skeletal, mixed, mesic
Edwards Variant	Limnic Medisaprists; marly, euic, mesic
Elkinsville*	Ultic HapludalFs; fine-silty, mixed, mesic
Elston*	Typic Argiudolls; coarse-loamy, mixed, mesic
Fairpoint	Typic Udorthents; loamy-skeletal, mixed, nonacid, mesic
Haymond	Typic Udifluvents; coarse-silty, mixed, nonacid, mesic
Haymond Variant	Typic Udifluvents; coarse-silty, mixed, nonacid, mesic
Henshaw	Aquic HapludalFs; fine-silty, mixed, mesic
Hickory	Typic HapludalFs; fine-loamy, mixed, mesic
Hosmer	Typic FragiudalFs; fine-silty, mixed, mesic
Iona	Typic HapludalFs; fine-silty, mixed, mesic

*Taxadjunct - See Notes to Accompany Classification and Correlation of the Soils of Knox County, Indiana, for details.

<u>Soil Series</u>	<u>Family or Higher Taxonomic Class</u>
Iva	Aeric Ochraqualfs; fine-silty, mixed, mesic
Kings	Vertic Haplaquolls; fine, montmorillonitic, mesic
Landes	Fluventic Hapludolls; coarse-loamy, mixed, mesic
Lomax*	Cumulic Hapludolls; coarse-loamy, mixed, mesic
Lyles	Typic Haplaquolls; coarse-loamy, mixed, mesic
Markland	Typic Hapludalfs; fine, mixed, mesic
McGary	Aeric Ochraqualfs; fine, mixed, mesic
Nolin	Dystric Fluventic Eutrochrepts; fine-silty, mixed, mesic
Patton	Typic Haplaquolls; fine-silty, mixed, mesic
Peoga Variant	Typic Ochraqualfs; fine, mixed, mesic
Petrolia	Typic Fluvaquents; fine-silty, mixed, nonacid, mesic
Proctor*	Typic Argiudolls; fine-silty, mixed, mesic
Ragsdale	Typic Argiaquolls; fine-silty, mixed, mesic
Reesville	Aeric Ochraqualfs; fine-silty, mixed, mesic
Selma	Typic Haplaquolls; fine-loamy, mixed, mesic
Stockland	Typic Hapludolls; loamy-skeletal, mixed, mesic
Sylvan	Typic Hapludalfs; fine-silty, mixed, mesic
Udorthents	Typic Udorthents; sandy-skeletal, mixed, mesic
Vincennes	Typic Haplaquepts; fine-loamy, mixed, nonacid, mesic
Wakeland	Aeric Fluvaquents; coarse-silty, mixed, nonacid, mesic
Wallkill	Thapto-Histic Fluvaquents; fine-loamy, mixed, nonacid, mesic
Zipp	Typic Haplaquepts; fine, mixed, nonacid, mesic